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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/688,708	10/17/2003	Adam M. Kennedy	02W155	2192	
75	7590 08/24/2005			EXAMINER	
Raytheon Company			TRINH,	TRINH, HOA B	
Intellectual Property & Licensing, EO/E04/N119 2000 East El Segundo Boulevard P O Box 902 El Segundo, CA 90245			ART UNIT	PAPER NUMBER	
			2814		
			DATE MAILED: 08/24/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/688,708	KENNEDY ET AL.				
Office Action Summary	Examiner	Art Unit				
	Vikki H. Trinh	2814				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY	VIS SET TO EXPIRE 2 MONTH	S) FROM				
THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period versions are provided to the provided period for reply within the set or extended period for reply will, by statute, any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status		,				
1) Responsive to communication(s) filed on 10 Ju	1) Responsive to communication(s) filed on 10 June 2005.					
2a) This action is FINAL . 2b) This	a) This action is FINAL . 2b) This action is non-final.					
. ,—	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims	•					
4)⊠ Claim(s) <u>1-27</u> is/are pending in the application.						
4a) Of the above claim(s) 1-8 and 21-27 is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>9-20</u> is/are allowed.						
6) Claim(s) is/are rejected.						
8) Claim(s) are subject to restriction and/o	r election requirement.	•				
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>17 October 2003</u> is/are: a) accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119		•				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) Paper No(s)/Mail Date						

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DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of Group II, claims 9-20, in the reply filed on 06/10/05 is acknowledged.

- 2. Claims 1-8 and 21-27 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to nonelected groups, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 06/10/05. It is suggested that claims 1-8 and 21-27 would be canceled in response to this Office Action.
- 3. Applicant's election with traverse of Group II in the reply filed on 06/10/05 is acknowledged. The traversal is on the ground(s) that in claim 21, the outer packaging components sealed together "may" be the same as the window and the lower detector assembly of claim 9. This is not found persuasive because the term "may" should not necessary mean that the components mentioned are exactly the same. Even for arguendo that the components are the same for claims 21 and claim 9, the method steps of claims 21 and claim 9 result in different functions such that claim 21 includes the step of removing the radiation detector from the chamber which claim 9 does not need to include that step. In addition, claim 21 uses activated sealant material to hold the components together by increasing the temperature within the chamber. On contrary, in claim 9, when the first solder entity reaches a melting point, the window and the lower assembly are in contact to form a hermetically sealed compartment

The requirement is still deemed proper and is therefore made FINAL.

Allowable Subject Matter

4. Claims 9-20 are allowed.

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5. The following is an examiner's statement of reasons for allowance: The prior art of record does not disclose or fairly suggest either in singly or in combination a method of making a radiation detector having the steps of maintaining a spaced relation between a window and a lower detector assembly until the first solder entity reaches a melting point; moving at least one of the window and the lower detector assembly into contact with one another for forming a hermetically sealed compartment using the interposed first solder entity; and equalizing pressure between the processing chamber and external of the processing chamber while maintaining the reduced pressure within the sealed compartment, and other steps in the claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

6. This application is in condition for allowance except for the following formal matters:
The non-elected claims 1-8 and 21-27 be canceled and character number 10 be shown in the drawings as described below.

Drawings

7. The drawings are objected to under 37 CFR 1.83(a) because they fail to show the detector reference number "10" as described in the specification. Any structural detail that is essential for a proper understanding of the disclosed invention should be shown in the drawing. MPEP § 608.02(d). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing

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sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Prosecution on the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Komatsu et al. (5,397,897) and (5,521,123) teach an infrared sensor.

Kyle (6,413,800) teaches a hermetic sealed package.

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Vikki Trinh whose telephone number is (571) 272-1719. The

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Examiner can normally be reached from Monday-Friday, 9:00 AM - 5:30 PM Eastern Time. If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor, Mr. Wael Fahmy, can be reached at (571) 272-1705. The office fax number is 703-872-9306.

Any request for information regarding to the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Also, status information for published applications may be obtained from either Private PAIR or Public Pair. In addition, status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. If you have questions pertaining to the Private PAIR system, please contact the Electronic Business Center (EBC) at 866-217-9197 (toll free).

Lastly, paper copies of cited U.S. patents and U.S. patent application publications will cease to be mailed to applicants with Office actions as of June 2004. Paper copies of foreign patents and non-patent literature will continue to be included with office actions. These cited U.S. patents and patent application publications are available for download via the Office's PAIR. As an alternate source, all U.S. patents and patent application publications are available on the USPTO web site (www.uspto.gov), from the Office of Public Records and from commercial sources. Applicants are referred to the Electronic Business Center (EBC) at http://www.uspto.gov/ebc/index.html or 1-866-217-9197 for information on this policy. Requests to restart a period for response due to a missing U.S. patent or patent application publications will not be granted.

Vikki Trinh, Patent Examiner AU 2814

HOWARD WEISS PRIMARY EXAMINER